INTERNATIONAL SEARCH REPORT

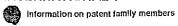


International Application No F/EP2004/002417

A CLASSI	FICATION OF SUBJECT MATTER			
IPC 7	B01D21/00 B01D21/26 B01D17/0	02		
According to	International Patent Classification (IPC) or to both national classifica	ation and IPC	· · · · · · · · · · · · · · · · · · ·	
B. FIELDS	SEARCHED			
Minimum do IPC 7	cumentation searched (classification system followed by classification 8010	on symbols)		
Documental	ion searched other than minimum documentation to the extent that s	ruch documents are included in the fields se	arched	
	ata base consulted during the International search (name of data base	se and, where practical, search terms used		
EPO-In	ternai			
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT			
Category °	Cliation of document, with indication, where appropriate, of the rela	evant passages	Relevant to claim No.	
χ	US 4 626 237 A (GALLOWAY JR JIMMI	'E C)	1-4,	
۸	2 December 1986 (1986-12-02)	.L u,	16-20,	
	column 4, line 55 - column 5, lin	no 17:	23,30	
	figures 1,8	ie 17,		
А	EP 1 352 679 A (COOPER CAMERON CO	ORP)	1-30	
	15 October 2003 (2003-10-15) abstract; figure 1			
A	US 5 248 421 A (ROBERTSON GLEN A)		1-30	
n	28 September 1993 (1993-09-28)		1 00	
	abstract; claim 1; figure 1			

		A PARTIE AND A PAR		
Furth	ter documents are listed in the continuation of box C	Patent family members are listed in	n annex	
° Special car	legories of ciled documents :	*T* later document published after the inter- or priority date and not in conflict with t	national filing date	
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'P' docume	ent published prior to the international filling date but	in the art *&" document member of the same patent f	•	
	actual completion of the international search	Date of mailing of the international sear		
9	November 2004	16/11/2004		
,	nalling address of the ISA	Authorized officer		
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intrinational Application No	
Intimational Application No PT/EP2004/002417	

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4626237	A	02-12-1986	AU	576464 B2	25-08-1988
			AU	5101785 A	19-06-1986
			BR	8506112 A	19-08-1986
			CA	1251184 A1	14-03-1989
			CN	85109021 A	27-08-1986
			DE	3543260 A1	12-06-1986
			FR	2574307 A1	13-06-1986
			GB	2168267 A ,B	18-06-1986
			JP	61153107 A	11-07-1986
			NL	8503307 A	01-07-1986
			NO	854868 A ,B,	11-06-1986
EP 1352679	Α	15-10-2003	EP	1352679 A1	15-10-2003
			WO	03086570 Al	23-10-2003
US 5248421	A	28-09-1993	NONE		